

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5127 - L2 Version 3
Chandra X-Ray Center

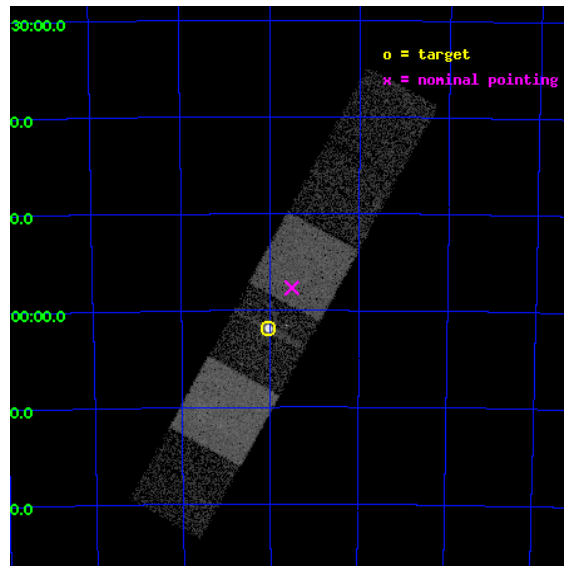
L2 Processing Date : Nov 9 2012

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1 Front

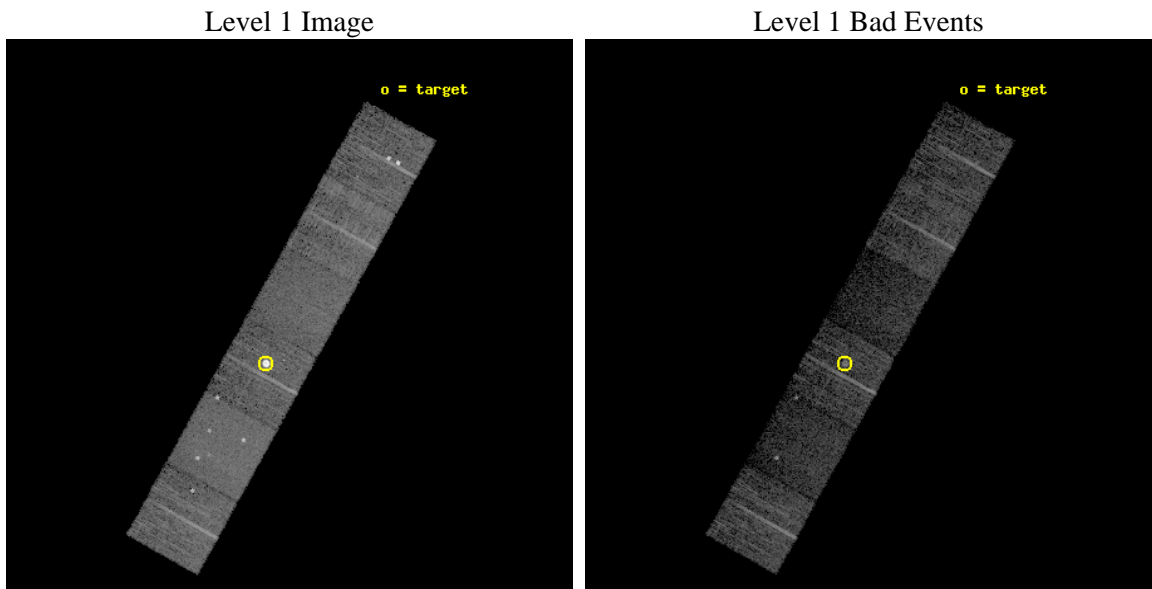
seq_num	590325	Sequence number
obs_id	5127	Observation id
title	AO5A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S2,-120,5.15,0,0]	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.877160701643	Nominal RA [deg]
dec_nom	-71.961327675273	Nominal Dec [deg]
roll_nom	299.07100883474	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8009.5999701619	Sum of GTIs [s]
livetime	7908.1775925376	Livetime [s]
ontime4	8009.5999701619	Sum of GTIs [s]
ontime5	8009.5999701619	Sum of GTIs [s]
ontime6	8009.5999701619	Sum of GTIs [s]
ontime7	8009.5999701619	Sum of GTIs [s]
ontime8	8003.1180296242	Sum of GTIs [s]
ontime9	8006.3589998782	Sum of GTIs [s]
l2events	85002	Number of level 2 events



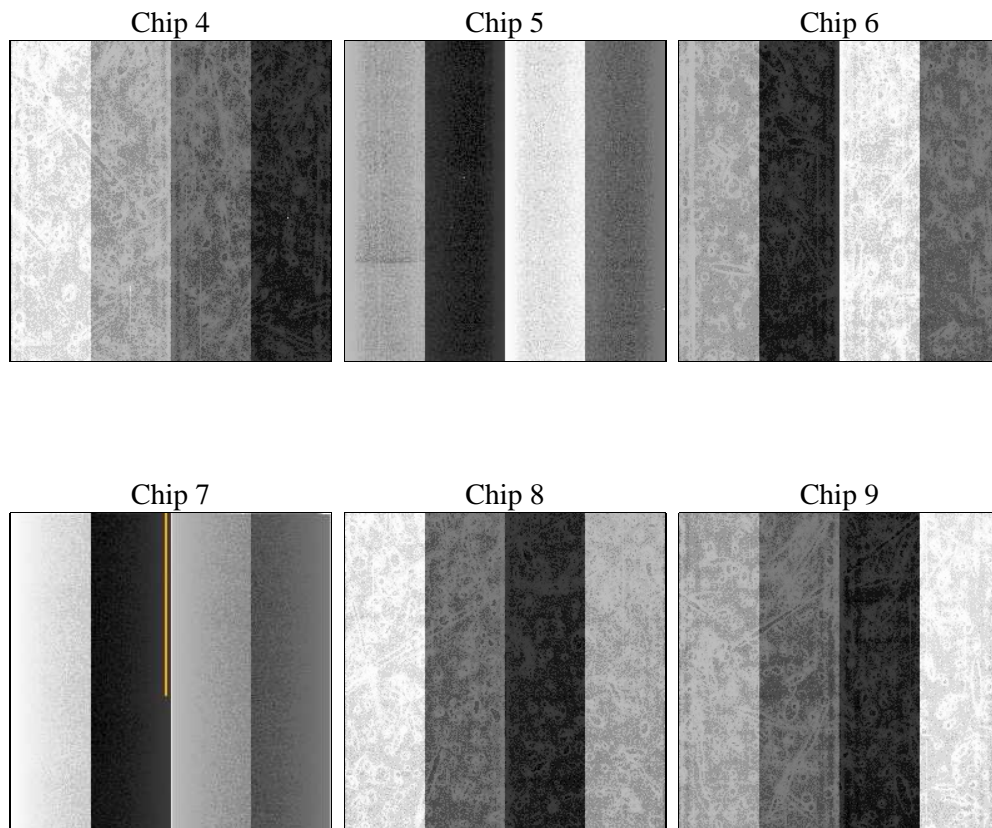
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8250.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8009.5999701619	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	8009.5999701619	Sum of GTIs [s]
date	2012-11-09T07:43:30	Date and time of file creation	ontime5	8009.5999701619	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	8009.5999701619	Sum of GTIs [s]
			ontime7	8009.5999701619	Sum of GTIs [s]
			ontime8	8003.1180296242	Sum of GTIs [s]
			ontime9	8006.3589998782	Sum of GTIs [s]
			l1events	290066	Number of level 1 events

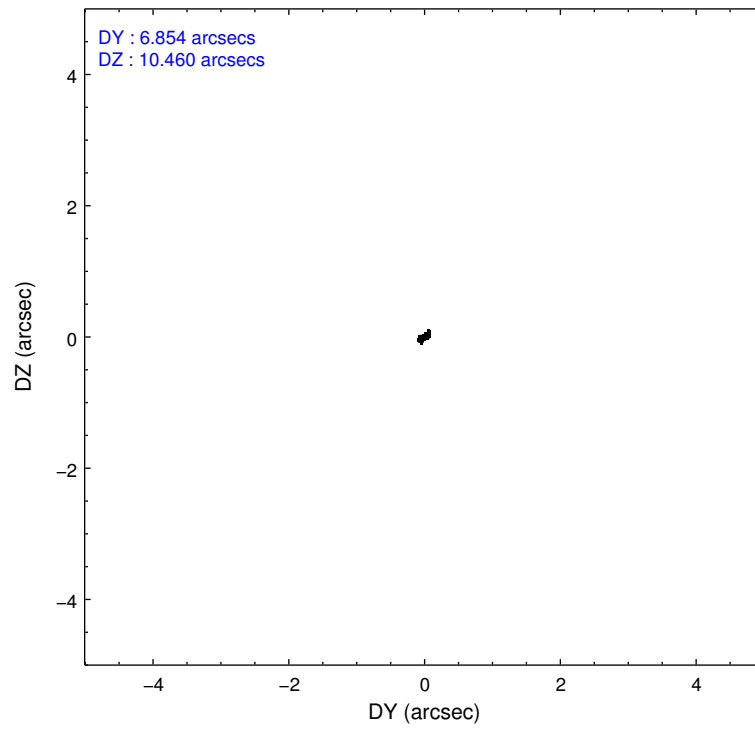
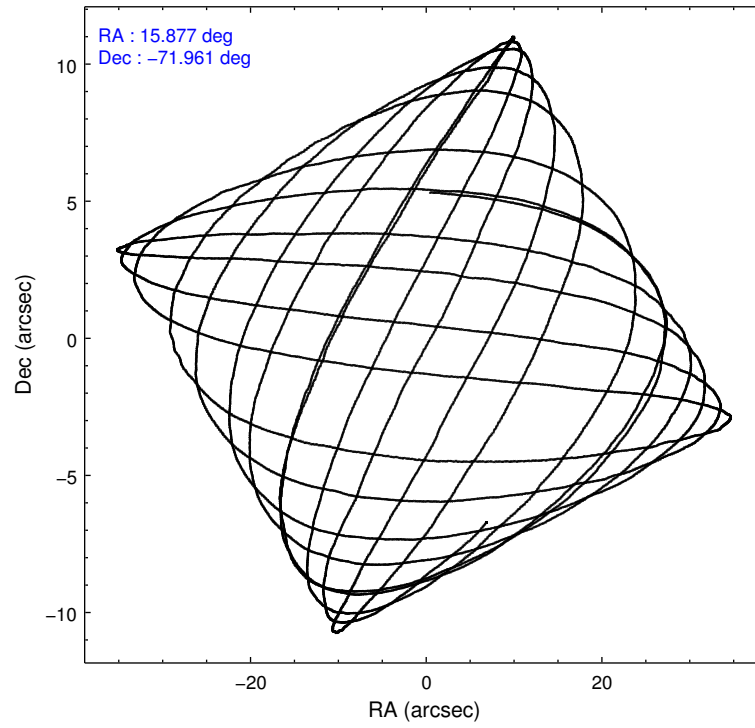
2.1.4 Events

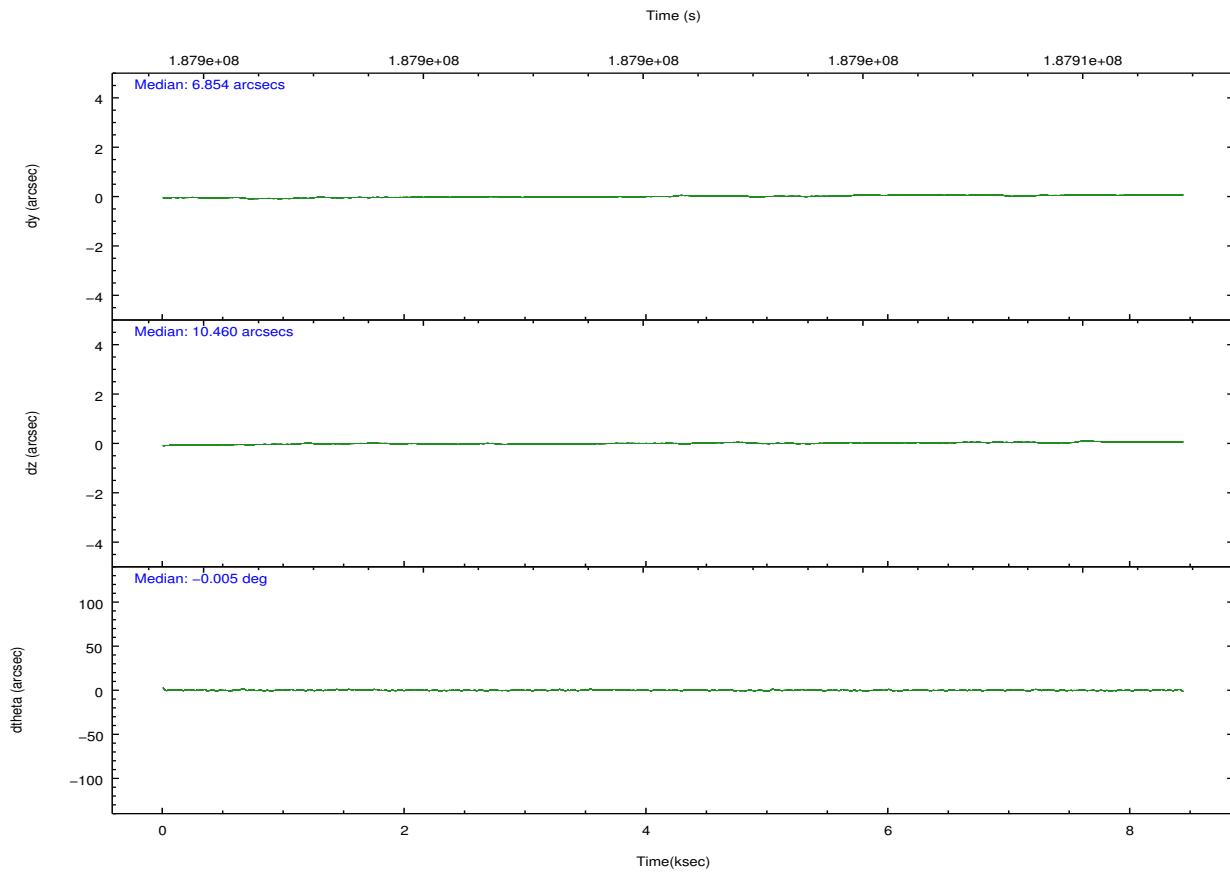
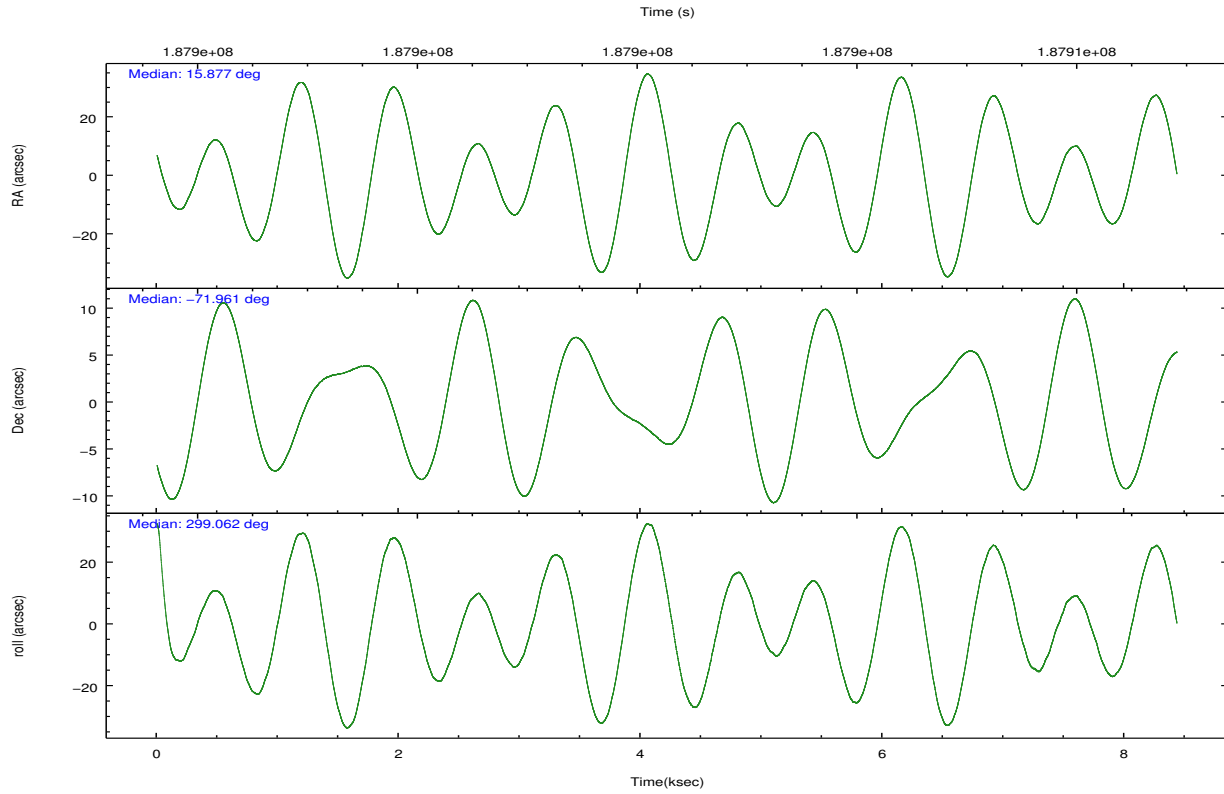
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	44110	50490	67579	37383	46998	43506	grade 0 events	2390	5558	28601	2021	2826	8521
rejected events	39274	21744	33252	18507	36773	32503		5%	11%	42%	5%	6%	19%
rejected %	89%	43%	49%	49%	78%	74%	grade 1 events	51	639	253	39	27	63
								0%	1%	0%	0%	0%	0%
							grade 2 events	927	7704	2981	3999	2324	804
								2%	15%	4%	10%	4%	1%
							grade 3 events	462	1411	874	1898	1214	463
								1%	2%	1%	5%	2%	1%
							grade 4 events	442	1380	940	1845	1173	463
								1%	2%	1%	4%	2%	1%
							grade 5 events	1246	3971	1332	3939	1848	1423
								2%	7%	1%	10%	3%	3%
							grade 6 events	620	12710	944	9128	2689	759
								1%	25%	1%	24%	5%	1%
							grade 7 events	37972	17117	31654	14514	34897	31010
								86%	33%	46%	38%	74%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.801048	15.87716070164319	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.947581	-71.96132767527338	Alternating exposures requested	N	N
[deg] Pointing Roll	298.842017	299.0710088347382	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	181353664.184000	181353664.184000			
[s] Window stop time (MET)	189216064.184000	189216064.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	187898238.184000	187897862.61189			
Observation start date	2003-12-15T17:56:14	2003-12-15T17:51:02			
[s] Observation end time (MET)	187906488.184000	187906622.77477			
Observation end date	2003-12-15T20:13:44	2003-12-15T20:17:02			
Read mode	TIMED	TIMED			

2.3 Aspect



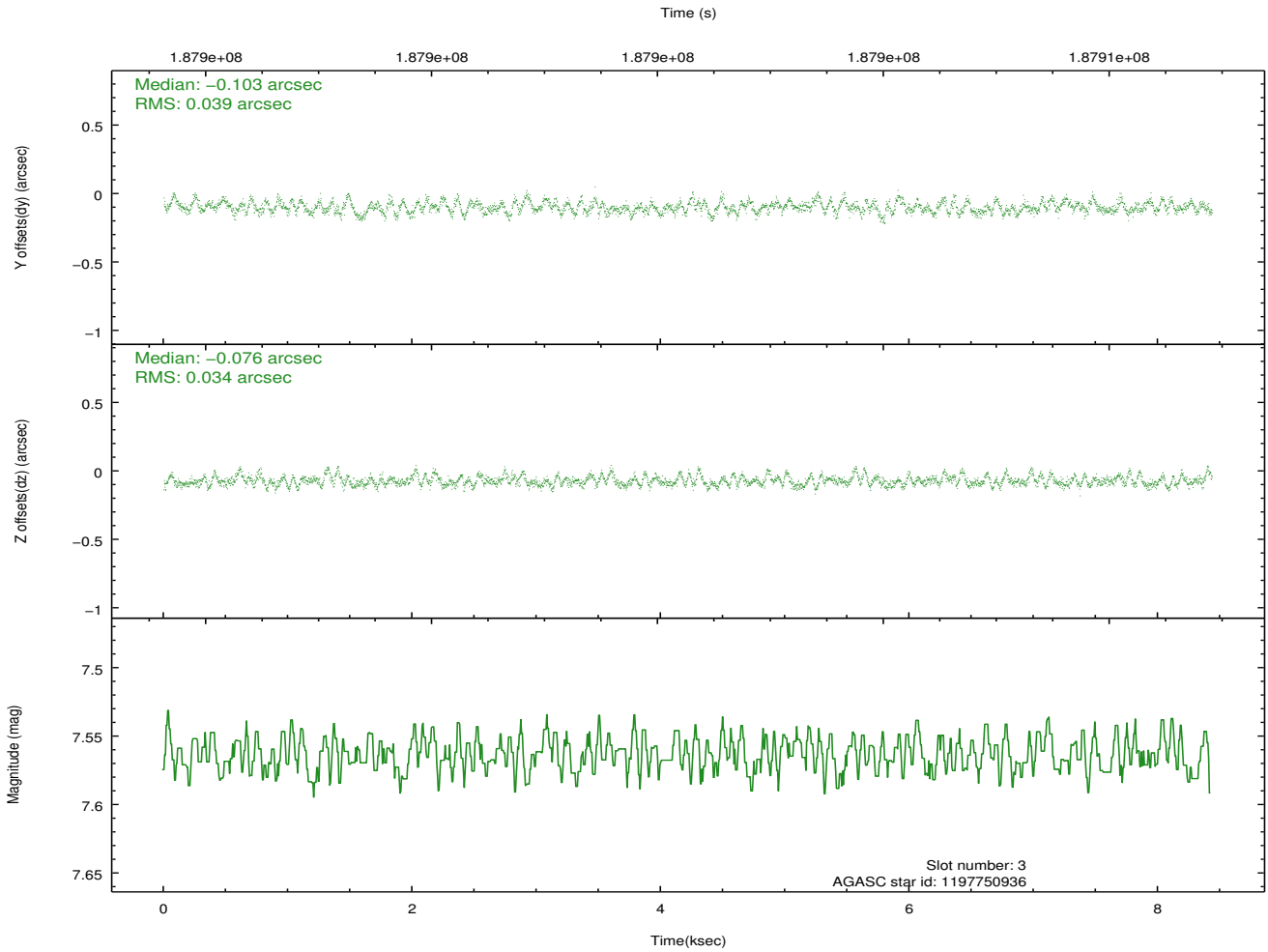
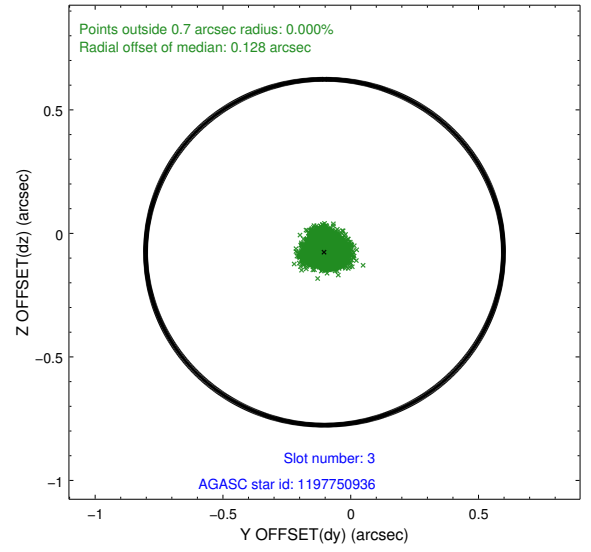
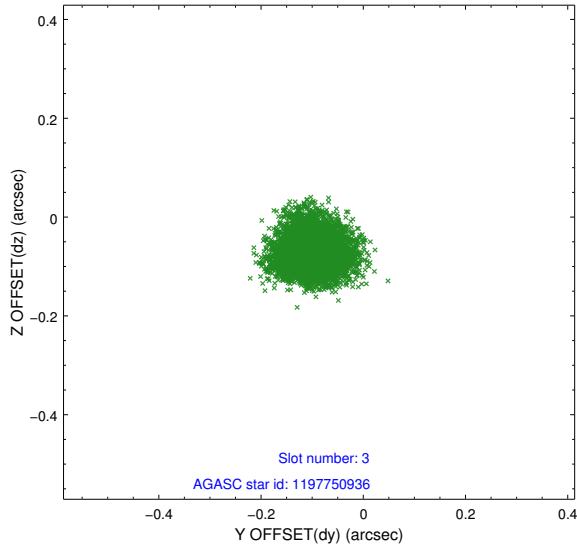


Slot Statistics

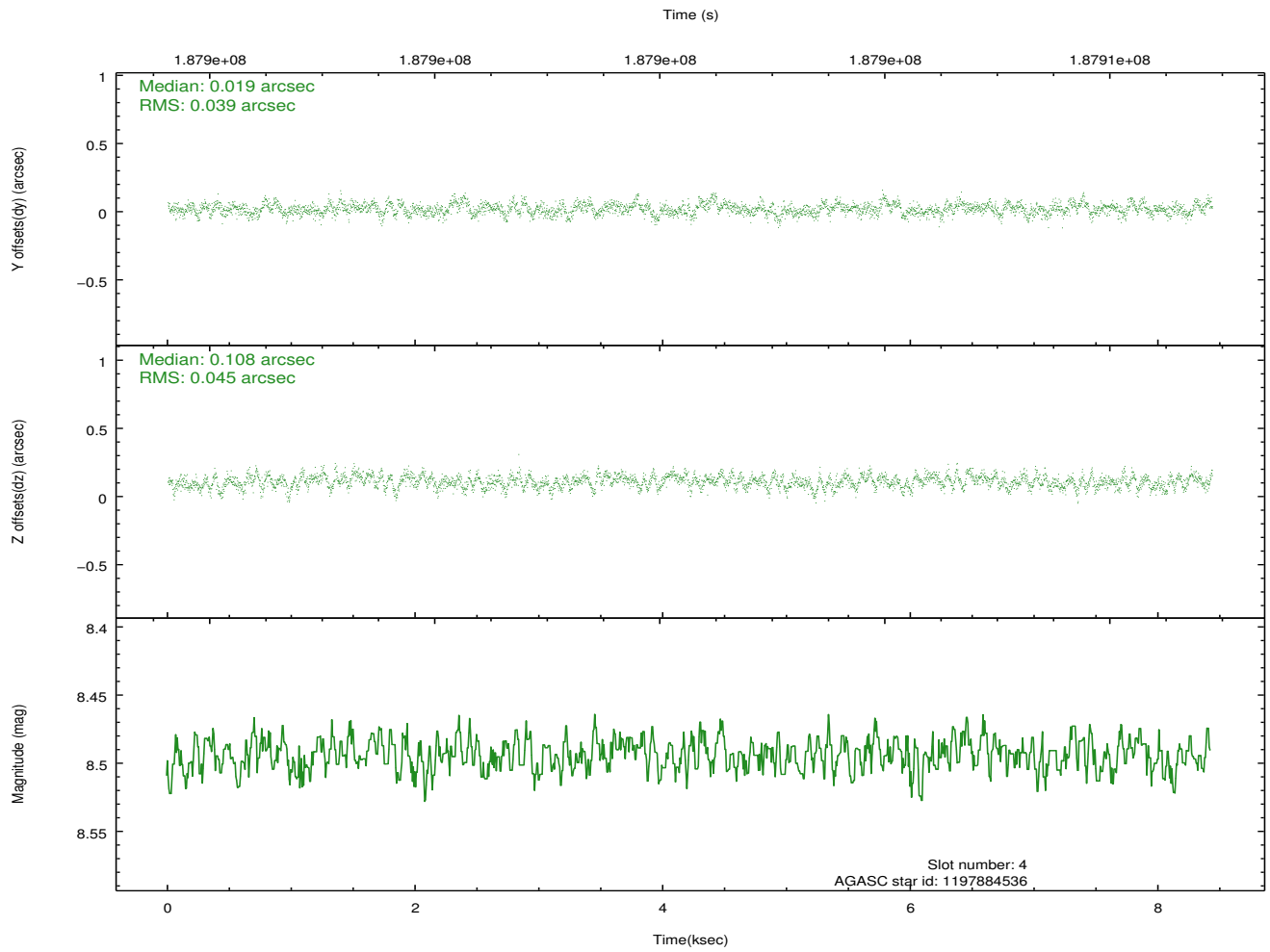
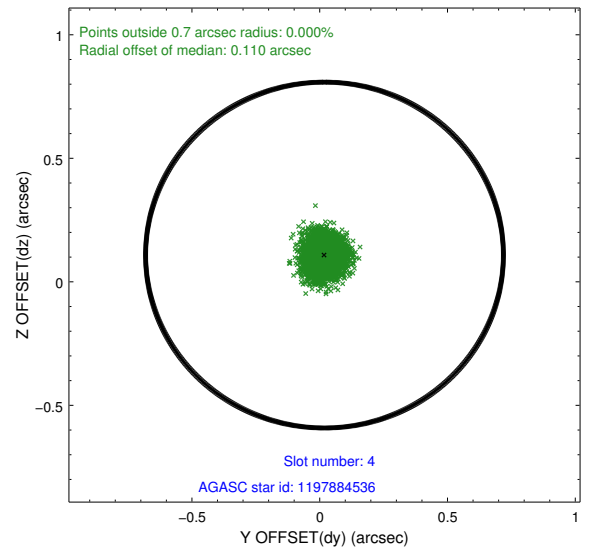
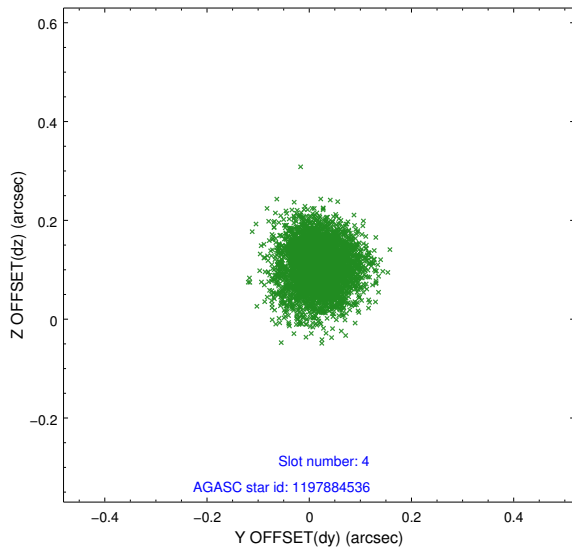
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2057	0.024	-0.055	0.007	0.012	0.000000	0.000000	936.45	-1727.41
1	FID	ACIS-S-5	7.24	2057	-0.047	0.014	0.006	0.010	0.000000	0.000000	-1812.24	169.55
2	FID	ACIS-S-6	7.34	2057	0.002	0.053	0.007	0.011	0.000000	0.000000	401.28	814.28
3	GUIDE	1197750936	7.56	4115	-0.103	-0.076	0.056	0.089	15.387940	-71.549550	-1480.75	277.85
4	GUIDE	1197884536	8.49	4114	0.019	0.108	0.063	0.103	17.160729	-71.835289	396.49	1523.53
5	GUIDE	1197884712	8.31	4112	0.103	0.068	0.051	0.082	16.087398	-72.252690	1114.68	-254.35
6	GUIDE	1197885328	7.23	4115	0.019	-0.022	0.054	0.084	16.283090	-71.733943	-409.19	846.72
7	GUIDE	1198189696	7.39	4113	-0.043	-0.082	0.067	0.116	15.223750	-72.697522	2069.61	-1844.80

2.4 Star Slots

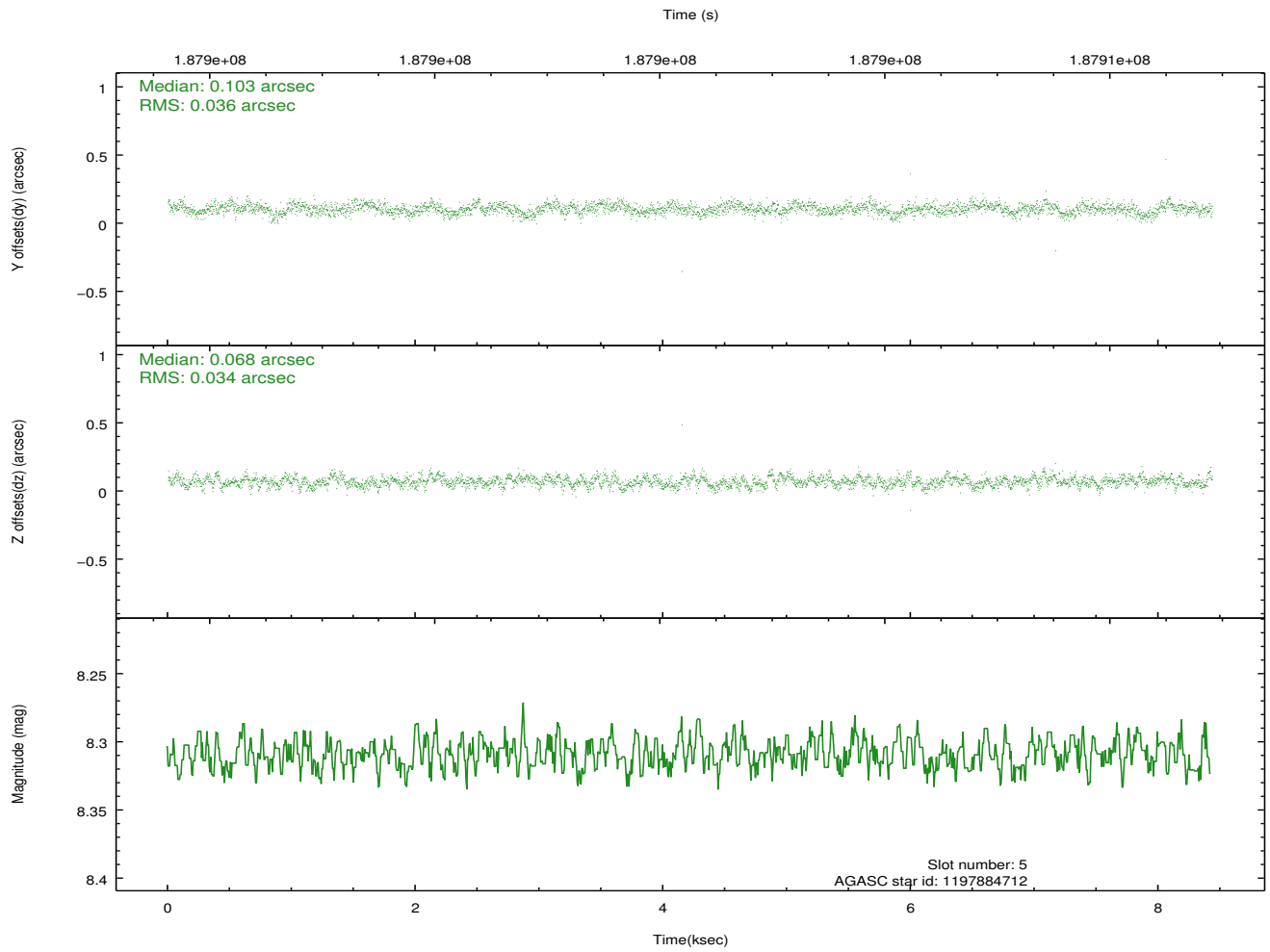
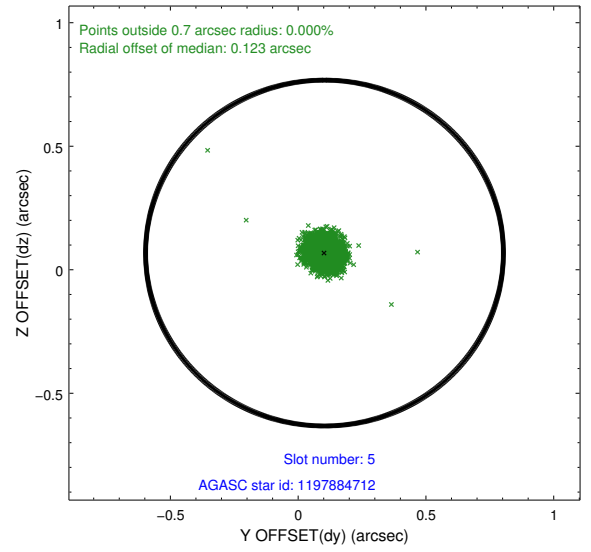
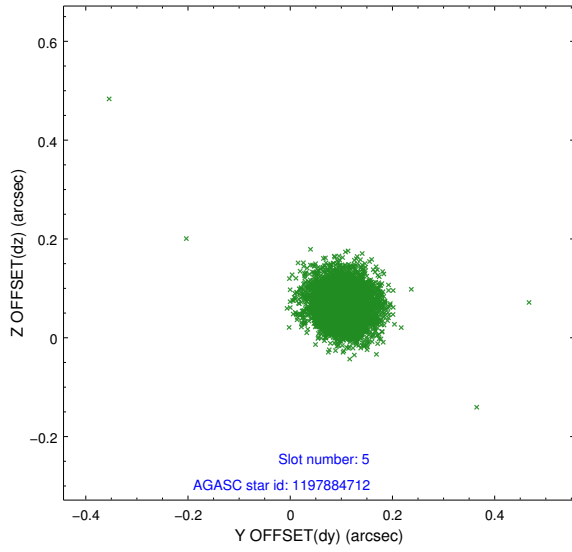
2.4.1 Slot 3



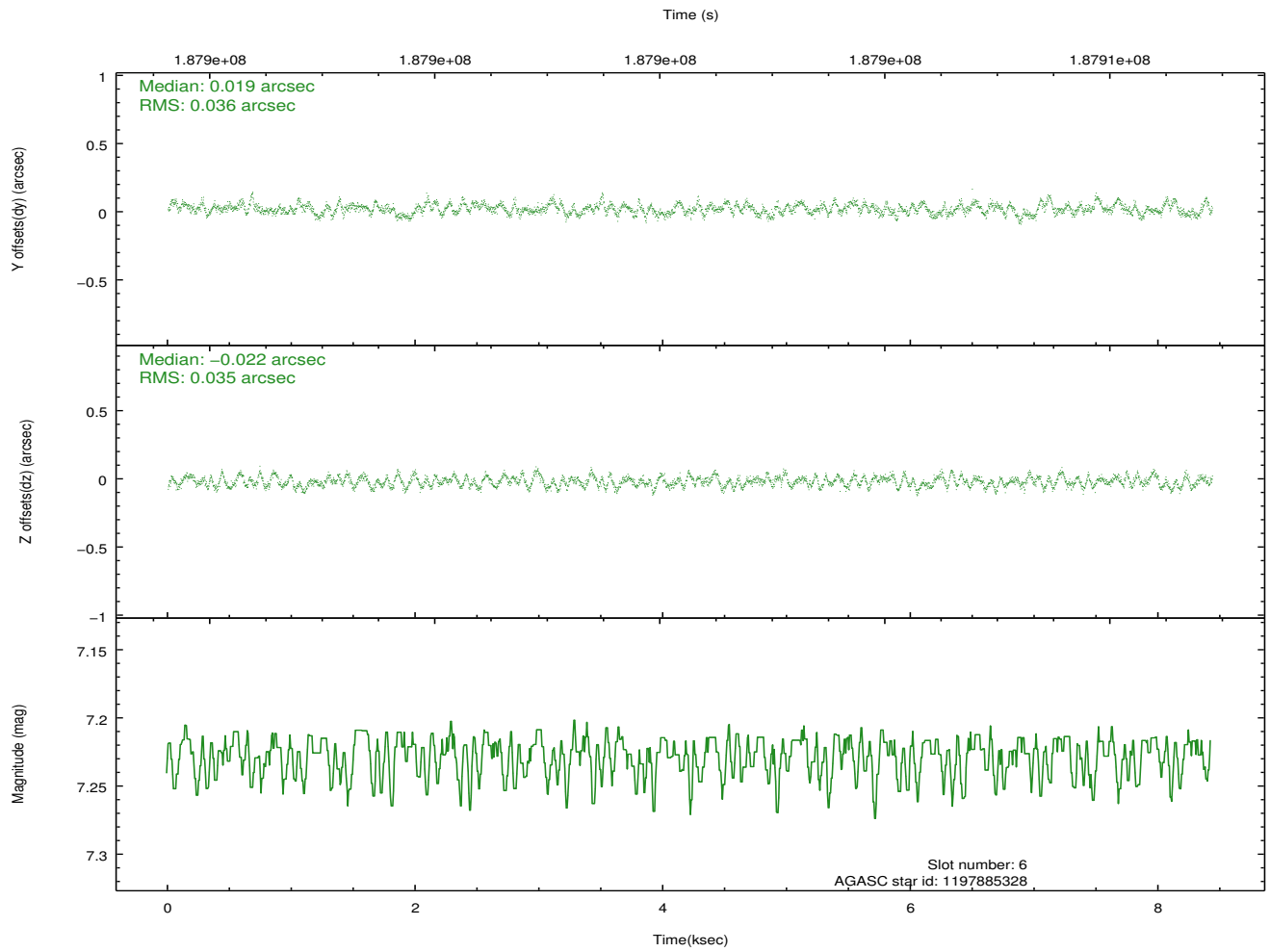
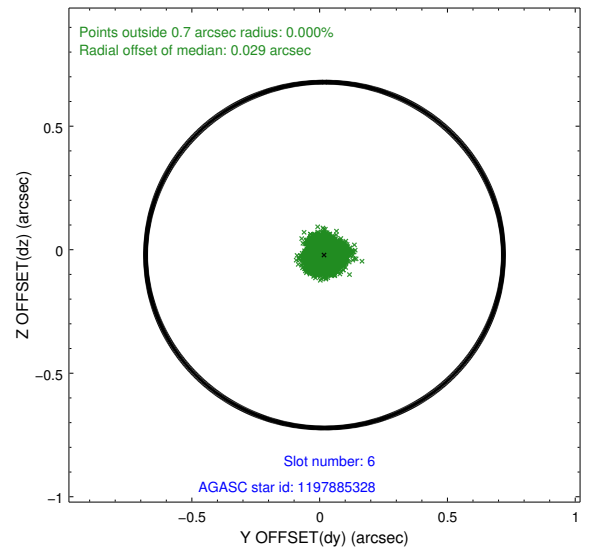
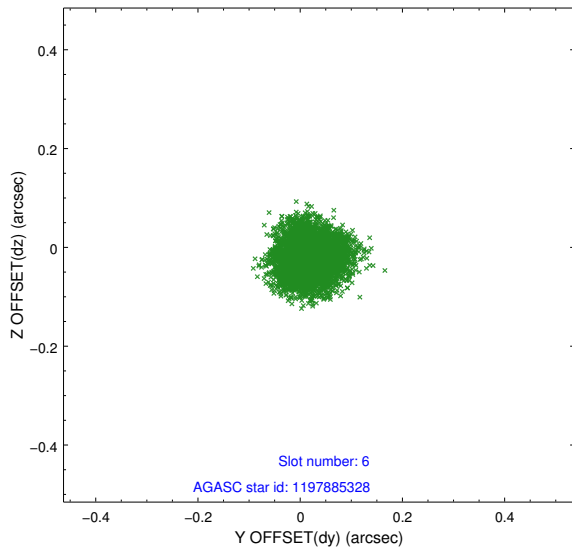
2.4.2 Slot 4



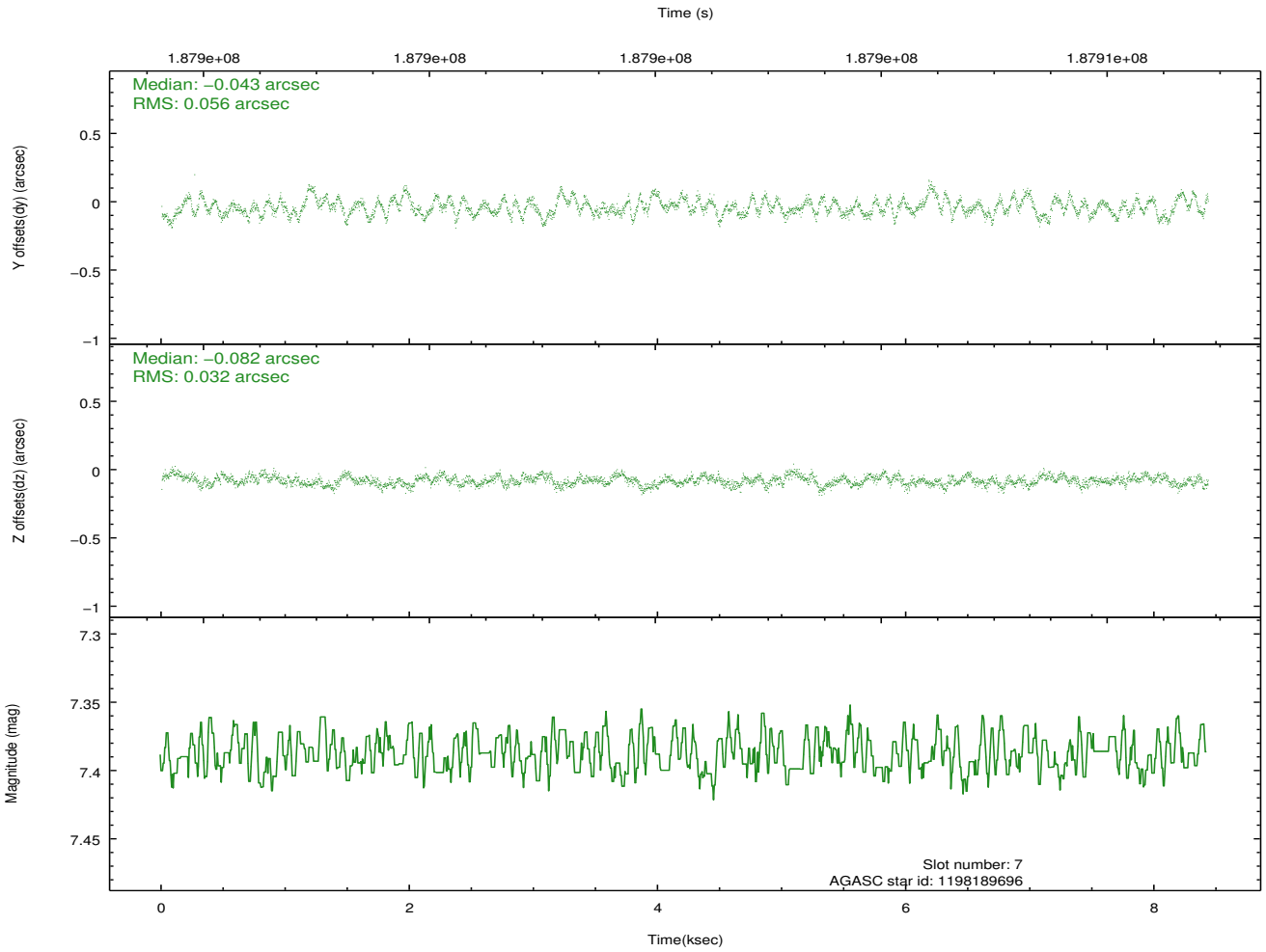
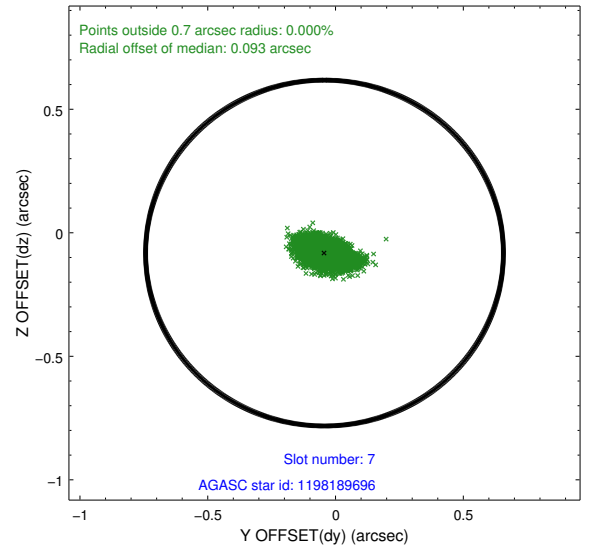
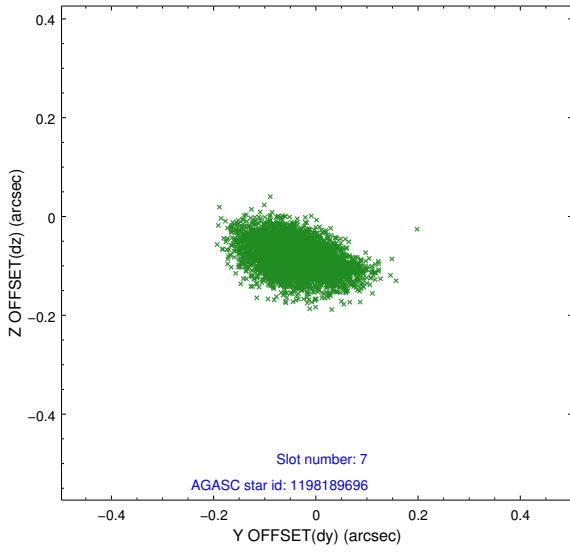
2.4.3 Slot 5



2.4.4 Slot 6

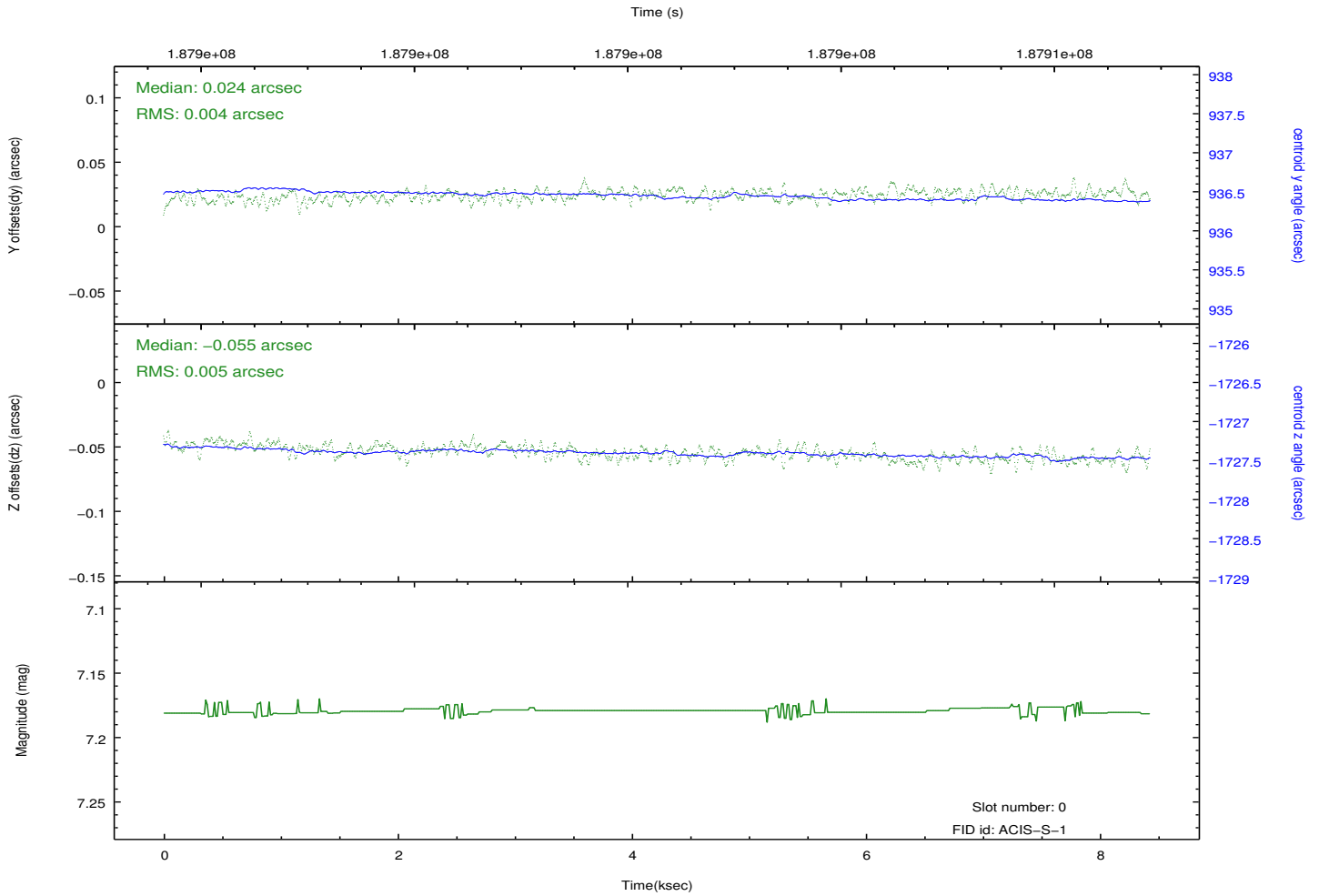
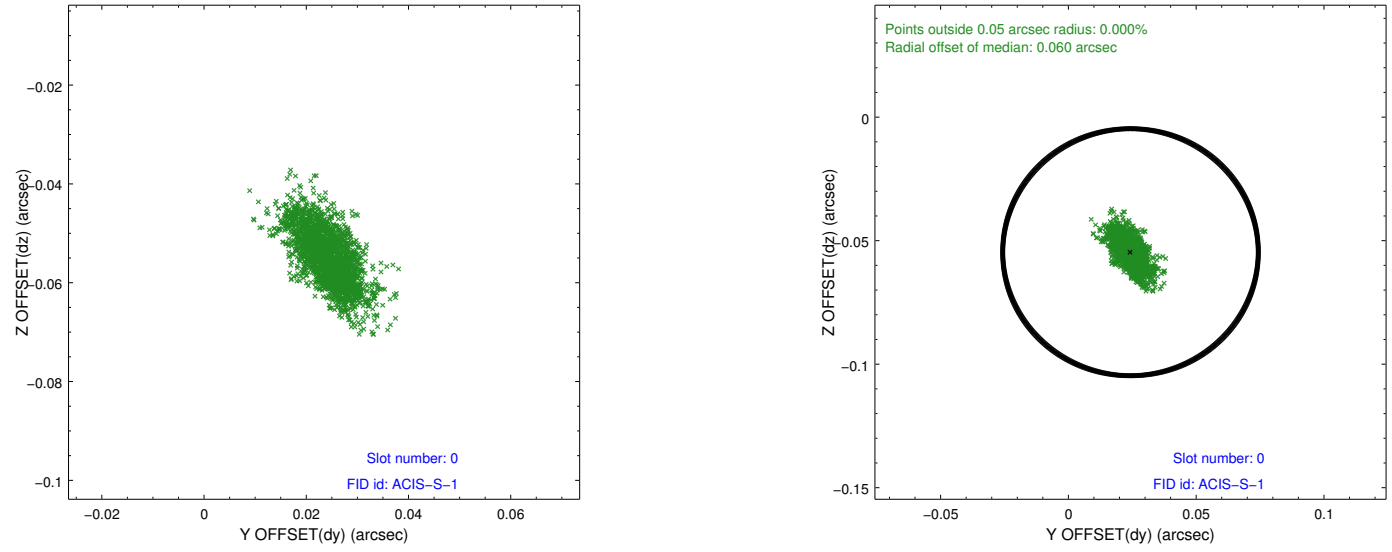


2.4.5 Slot 7

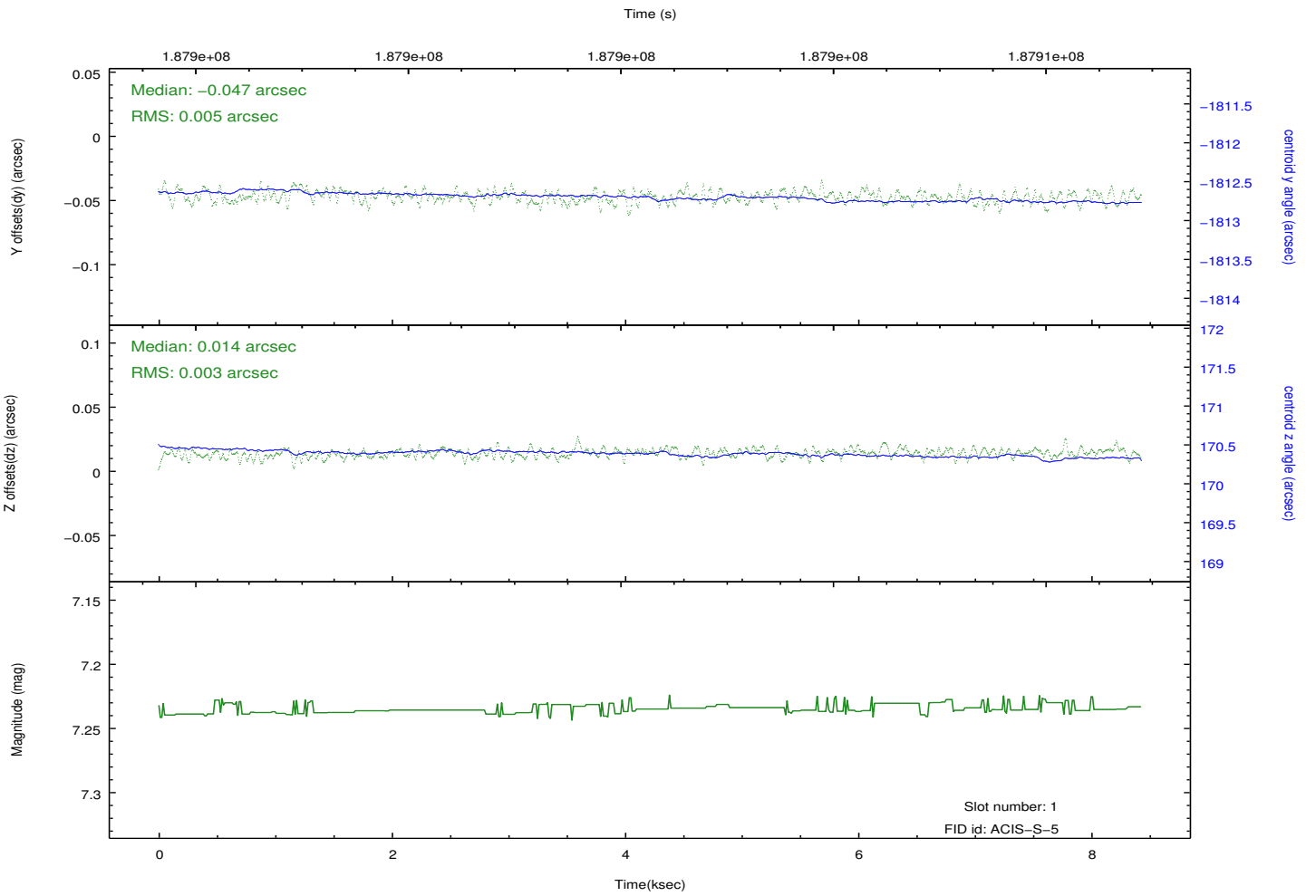
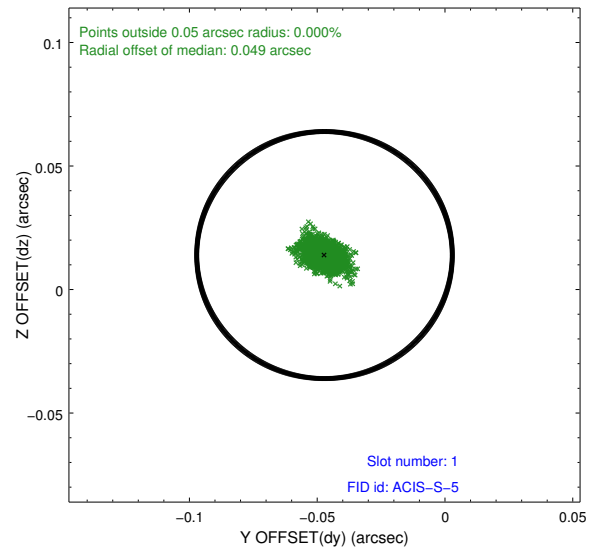
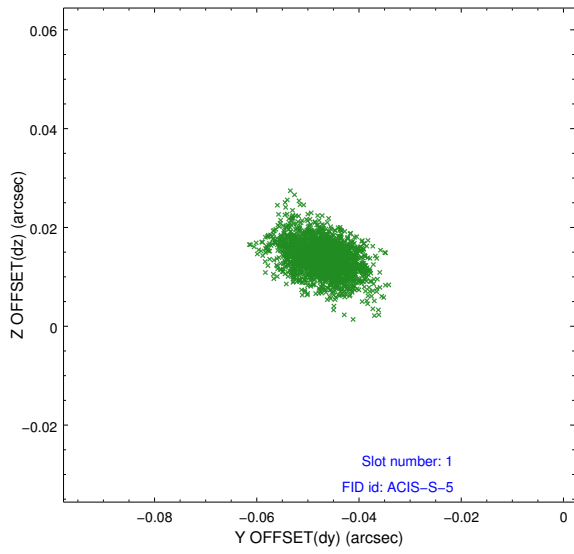


2.5 FID Slots

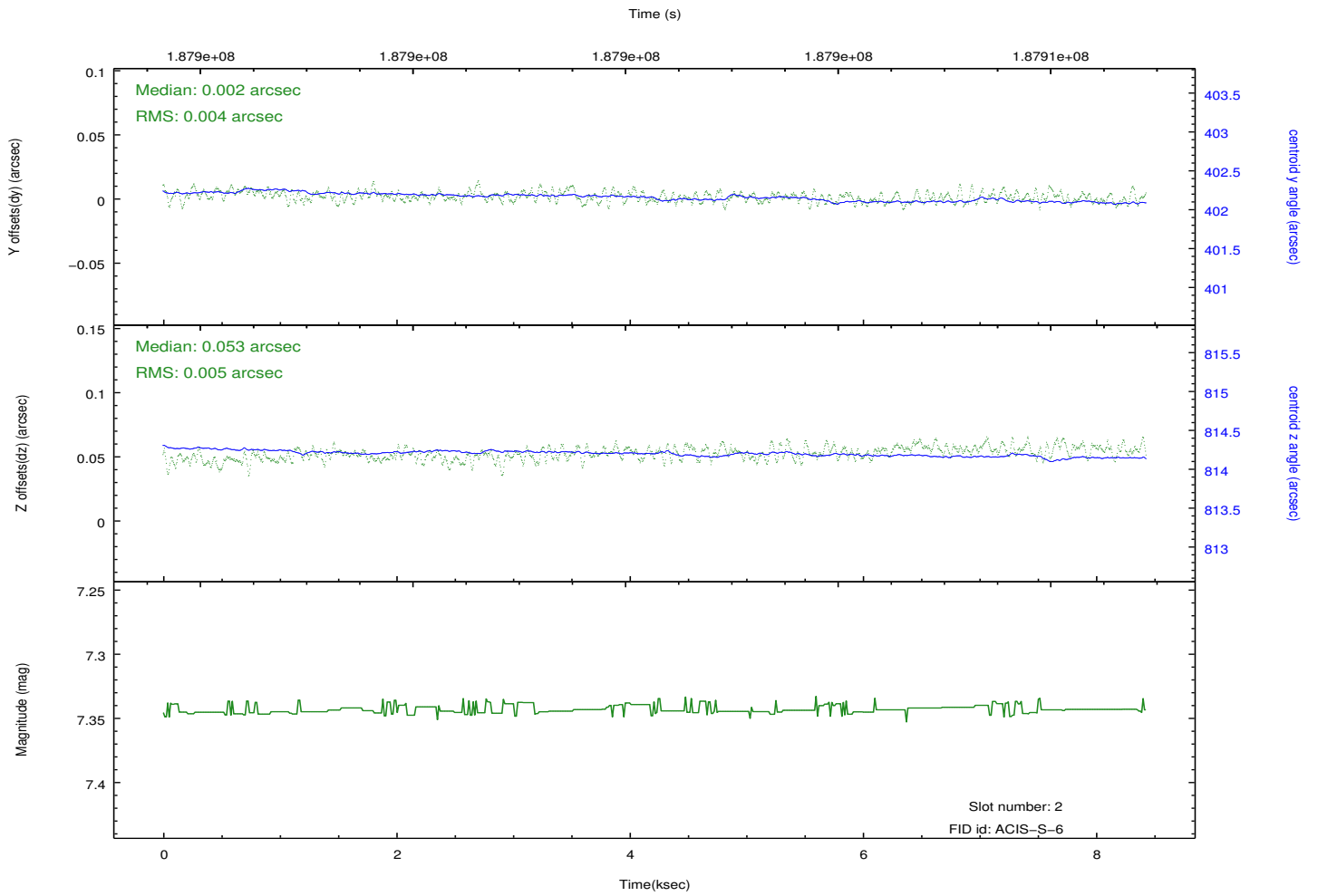
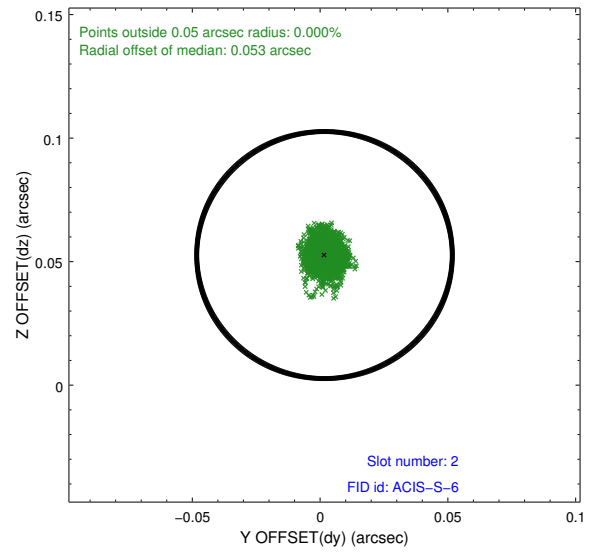
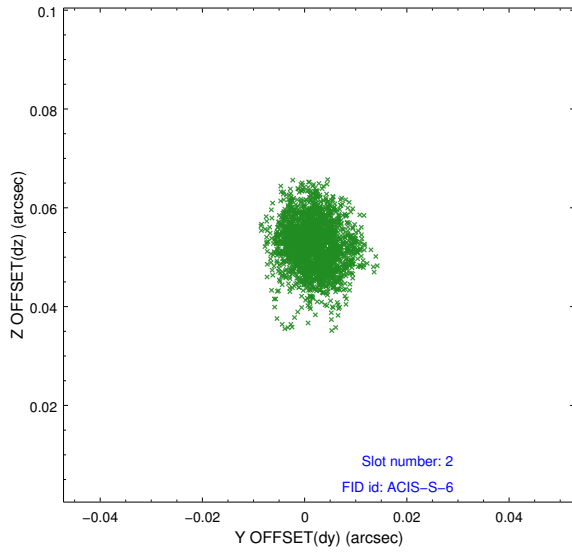
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.012

A.2 Comments

Window constraint met.